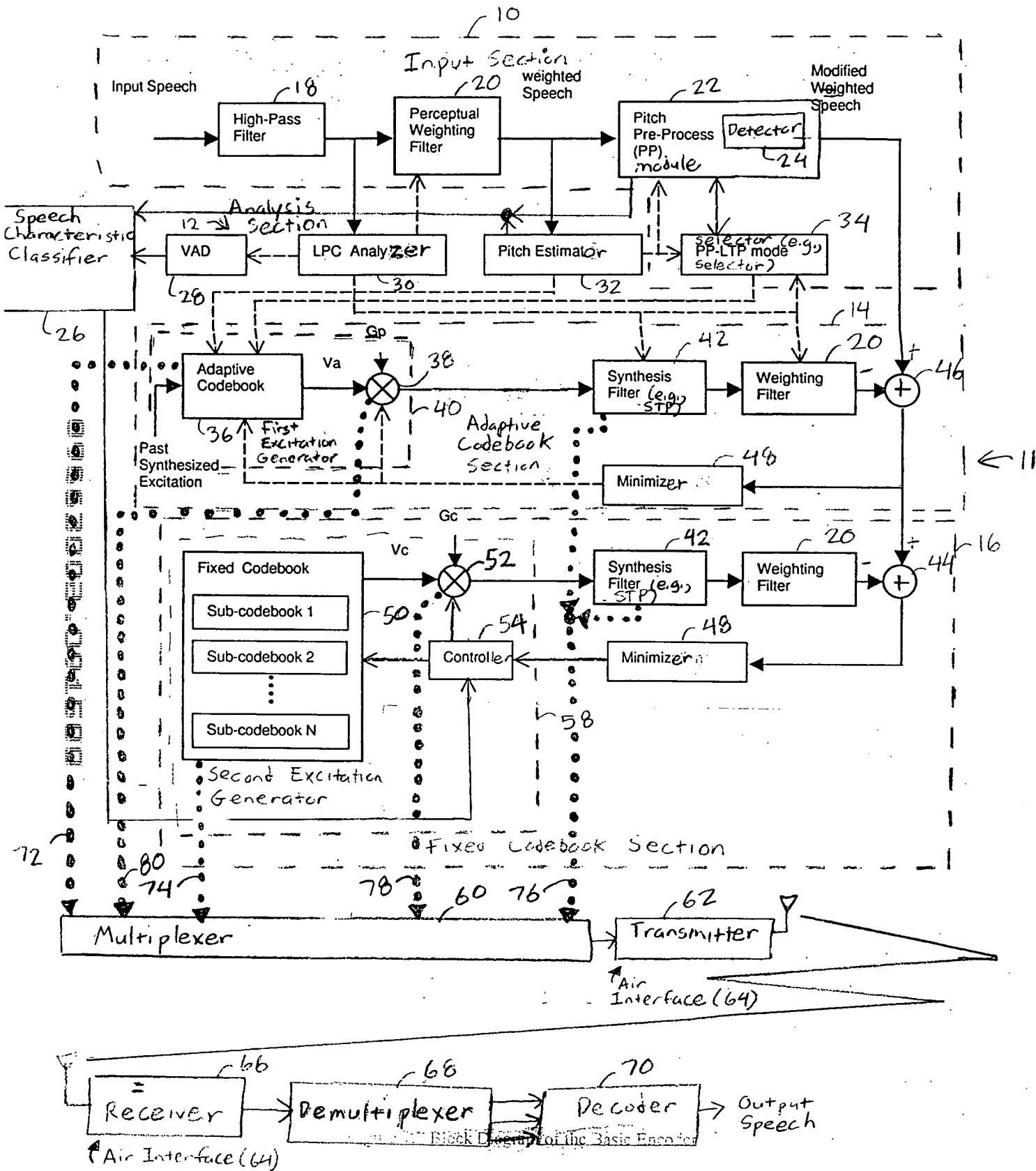


FIG. 1



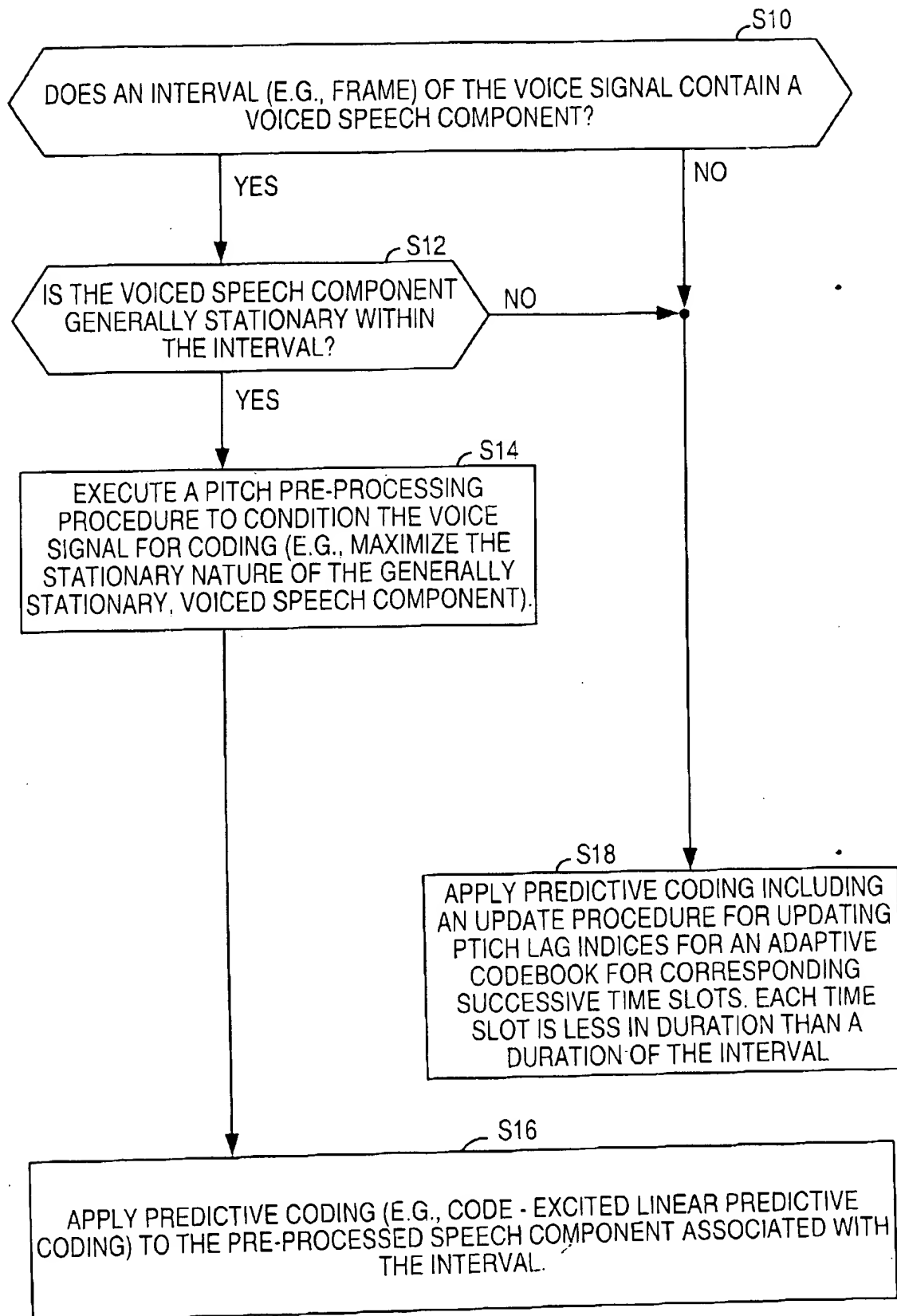


FIG. 2

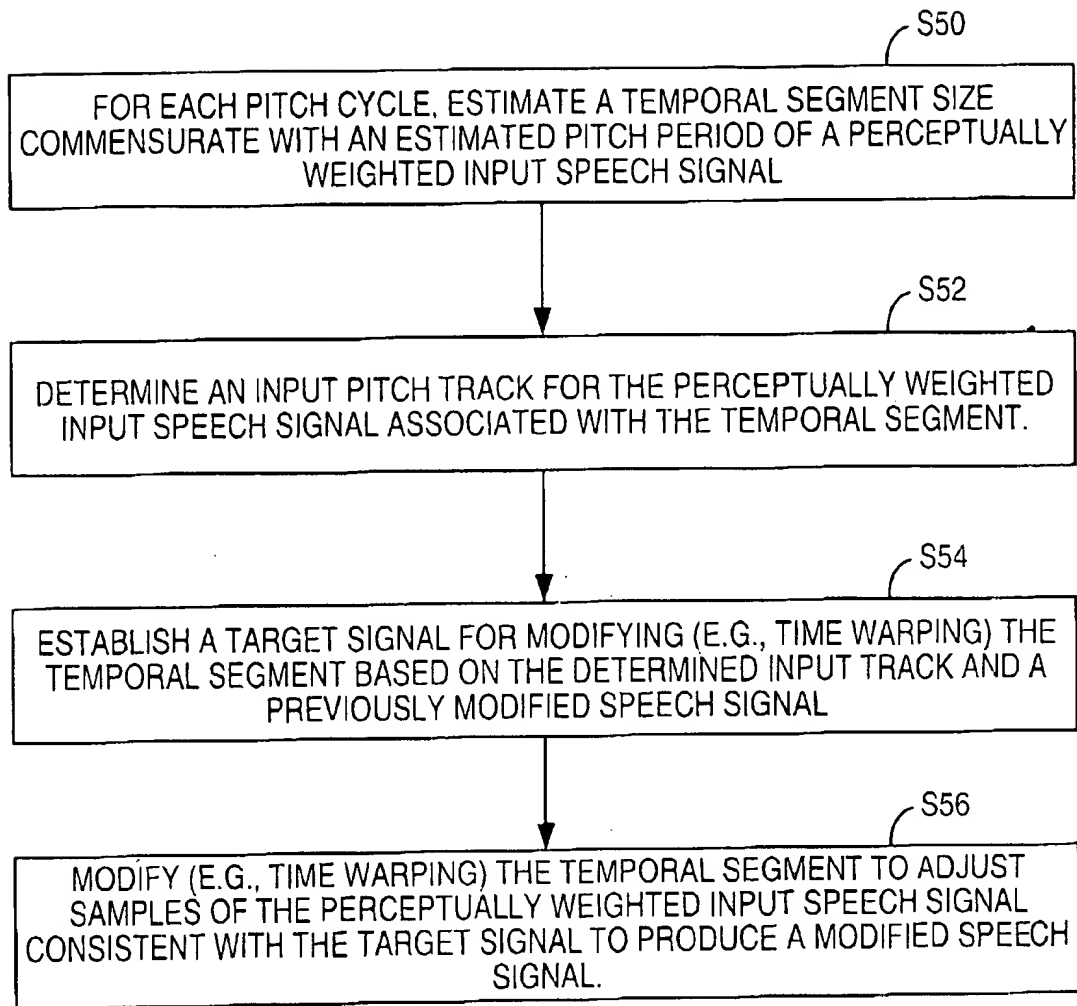


FIG. 3

005402-0450

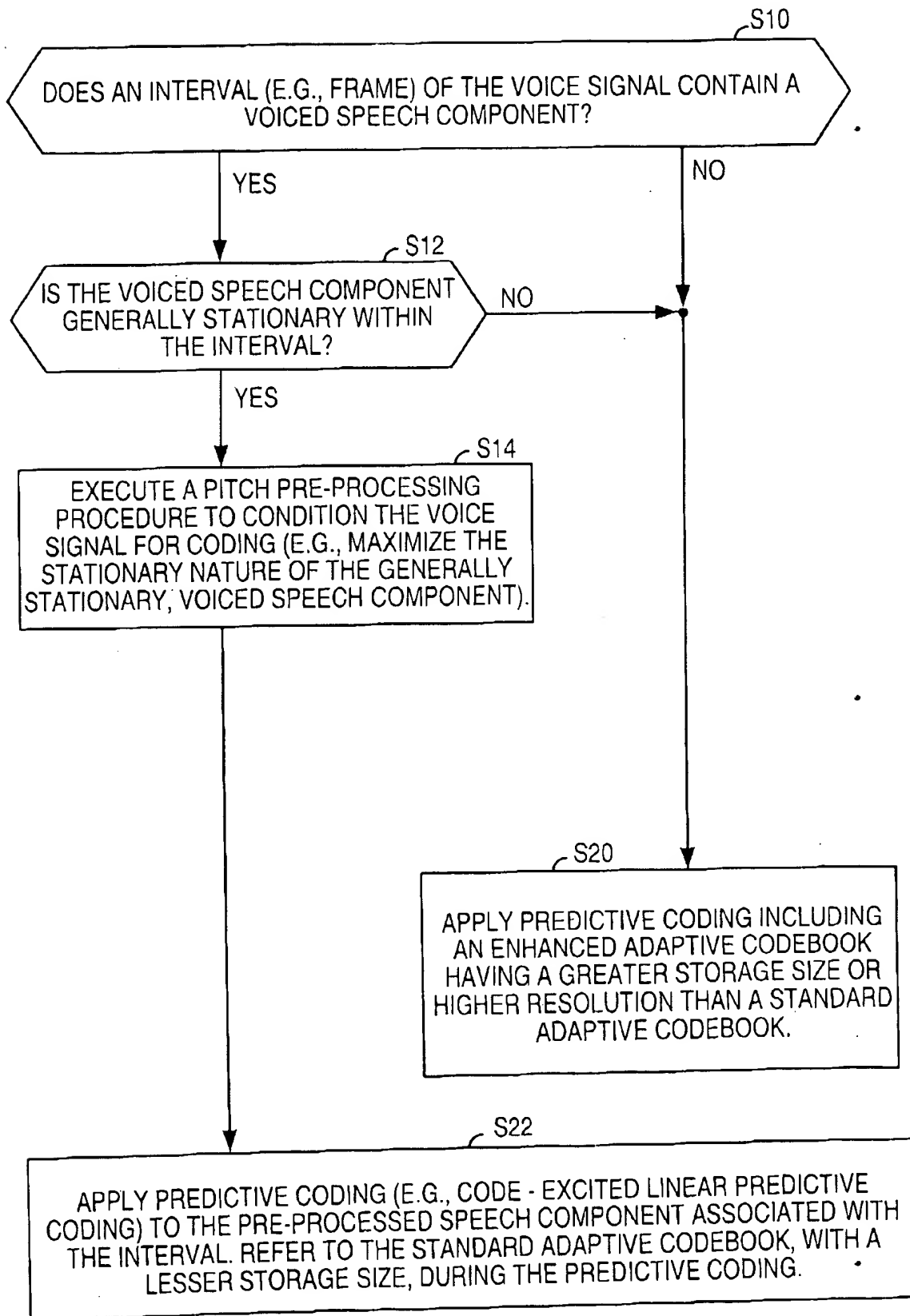


FIG. 4

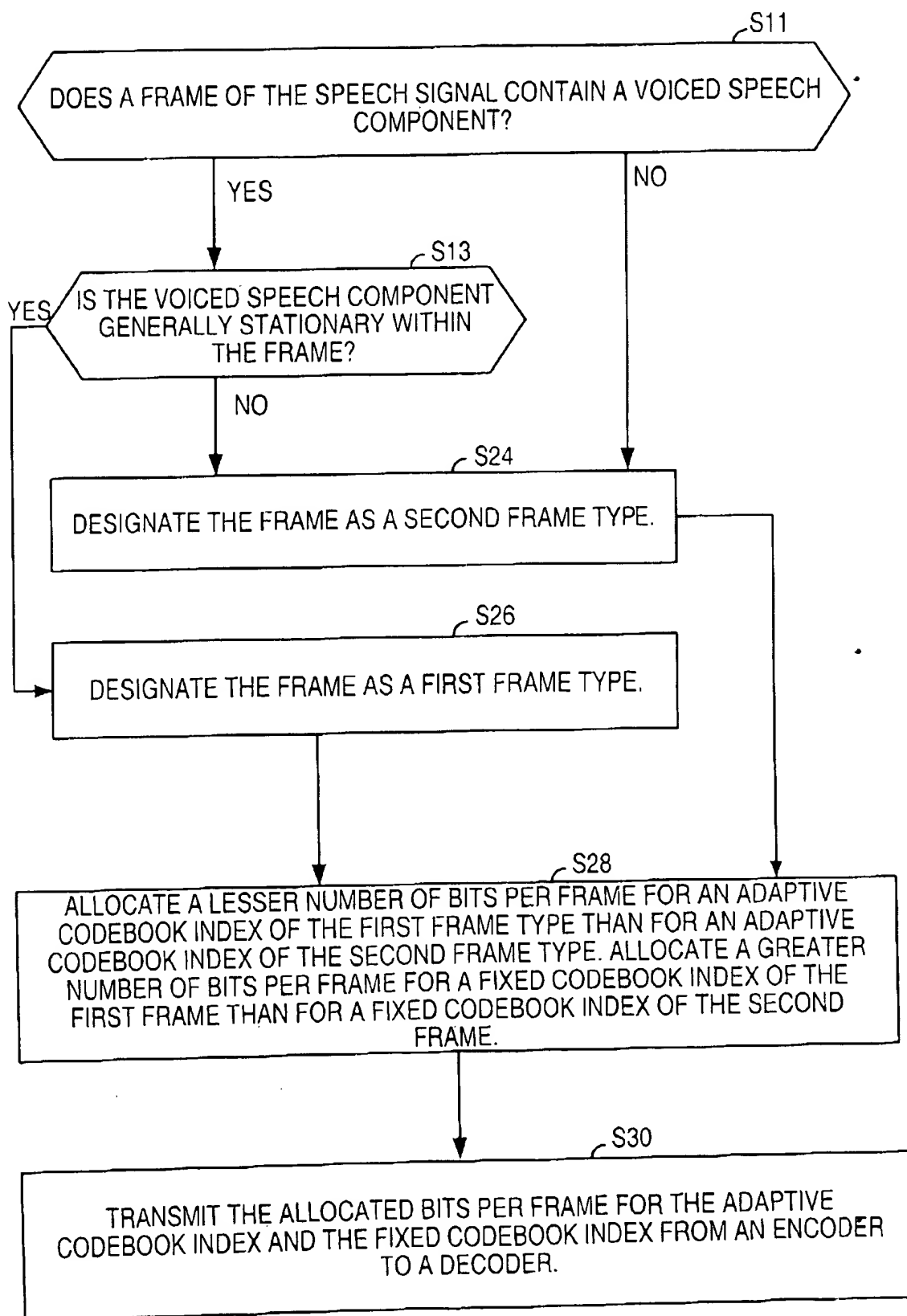


FIG. 5

ENCODING SCHEME	FIRST ENCODING SCHEME 99	SECOND ENCODING SCHEME 97
FRAME DURATION	20 ms	20 ms
FRAME TYPE	1ST FRAME TYPE (4 SUBFRAMES)	2ND FRAME TYPE (4 SUBFRAMES)
FILTER COEFFICIENT INDICATORS (E.G., LSF'S) 76	1ST STAGE	INTERPOLATION 2 BIT
	2ND STAGE	1ST STAGE 7 BITS
	3RD STAGE	2ND STAGE 6 BITS
	4TH STAGE	3RD STAGE 6 BITS
		4TH STAGE 6 BITS
TYPE INDICATOR 71	1 BIT	27 BITS
ADAPTIVE CODEBOOK 72	8 BITS/FRAME	1 BIT
FILTER CODEBOOK INDEX 74	8 - PULSE CODEBOOK	8,5,8,5 BITS/SUBFRAME 26 BITS
	2 <sup>30</sup> ENT./SUBFRAME	5 - PULSE CODEBOOK 2 <sup>21</sup> ENT./SUBFRAME
		5 - PULSE CODEBOOK 2 <sup>20</sup> ENT./SUBFRAME
		5 - PULSE CODEBOOK 2 <sup>20</sup> ENT./SUBFRAME
ADAPTIVE CODEBOOK GAIN 80	30 BITS/SUBFRAME	2 <sup>22</sup> ENT./SUBFRAME
	120 BITS	22 BITS/SUBFRAME 88 BITS
FIXED CODEBOOK GAIN 78	4D PRE VQ/FRAME	2D VQ/SUBFRAME 7 BITS/SUBFRAME
	4D DELAYED VQ/FRAME	28 BITS
	10 BITS	
TOTAL BITS	170 BITS	170 BITS

FIG. 6

ENCODING SCHEME	THIRD ENCODING—103 SCHEME	FOURTH ENCODING—101 SCHEME
FRAME DURATION	20 ms	20 ms
FRAME TYPE	3RD FRAME TYPE (3 SUBFRAMES)	4TH FRAME TYPE (2 SUBFRAMES)
LSF'S 76 FILTER COEFFICIENT INDICATORS (E.G., LSF'S)	1 BIT 7 BITS 7 BITS 6 BITS 21 BITS	PREDICTOR SWITCH 1 <sup>ST</sup> STAGE 2 STAGE 3 <sup>RD</sup> STAGE
TYPE INDICATOR 71	1 BIT	1 BIT
ADAPTIVE CODEBOOK 72	7 BITS/FRAME	7 BITS/SUBFRAME
FIXED CODEBOOK INDEX 74	2 - PULSE CODEBOOK	2 <sup>12</sup> ENT./SUBFRAME
	3 - PULSE CODEBOOK	2 <sup>12</sup> ENT./SUBFRAME
80	13 BITS/SUBFRAME	GAUSSIAN CODEBOOK
		2 <sup>13</sup> ENT./SUBFRAME
ADAPTIVE CODEBOOK GAIN 78	3D PRE VQ/FRAME	15 BITS/SUBFRAME
FIXED CODEBOOK GAIN 78	3D DELAYED VQ/FRAME	30 BITS
		7 BITS/SUBFRAME
TOTAL BITS	80 BITS	80 BITS

FIG. 7